WHAT IS CLAIMED IS:

1	1.	A container, comprising:
2		a container body including a cooling core body having a super-coolable
3		composition disposed within a core cavity of the cooling core body,
4		wherein the core body defines a container cavity for having articles
5		disposed therein; and
6		an insulated container cover mountable on the container body and capable
7		of covering the container cavity.
1	2.	The container of claim 1 wherein:
2		the cooling core body includes a first cooling core shell and a second
3		cooling core shell attached to the first cooling core shell; and
4		the core cavity is defined between the a first cooling core shell and the
5		second cooling core shell.
1	3.	The container of claim 2, further comprising:
2		a cooling member disposed within the core cavity and essentially
3		encapsulated within the super-coolable composition.
1	4.	The container of claim 1, further comprising:
2		a cooling member disposed within the core cavity and essentially
3		encapsulated within the super-coolable composition.
1	5.	The container of claim 4 wherein the cooling member includes a plurality of
2		cooling member segments.
1	6.	The container of claim 4 wherein the cooling member is a multi-pass cooling
2		member.

2	member coupling and a second cooling member coupling.
1	8. The container of claim 1, further comprising:
2	an insulating shell having the cooling core body disposed therein.
1	9. The container of claim 1, further comprising:
2	an insulating insert disposed within the cooling core body.
1	10. The container of claim 9 wherein:
2	the cooling core body includes a first cooling core shell and a second
3	cooling core shell attached to the first cooling core shell; and
4	the core cavity is defined between the first cooling core shell and the
5	insulating shell.
1	11. The container of claim 10, further comprising:
2	a cooling member disposed within the core cavity and essentially
3	encapsulated within the super-coolable composition.
1	12. The container of claim 1, wherein the super-coolable composition is made by
2	a process comprising:
3	forming a first mixture including water and ethanol, wherein the first
4	mixture has a first pH level;
5	adjusting the pH level of the first mixture to have a second pH level
6	different than the first pH level; and
7	combining a water-soluble binding agent with the first mixture to form a
8	second mixture.

1 7. The container of claim 4 wherein the cooling member includes a first cooling

1	13. A cooling core assembly, comprising:
2	a cooling core body having a core cavity therein;
3	a cooling member disposed in the core cavity; and
4	a super-coolable composition disposed within the core cavity, the super-
5	coolable composition encapsulating at least a portion of the cooling
6	member.
I	14. The cooling core assembly of claim 13 wherein:
2	the cooling core body includes a first cooling core shell and a second
3	cooling core shell attached to the first cooling core shell; and
4	the core cavity is defined between the a first cooling core shell and the
5	second cooling core shell.
1	15. The cooling core assembly of claim 13 wherein the cooling member includes a
2	plurality of cooling member segments.
1	16. The cooling core assembly of claim 15 wherein the cooling member is a multi-
2	pass cooling member.
1	17. The cooling core assembly of claim 13 wherein the cooling member includes a
2	first cooling member coupling and a second cooling member coupling.
1	18. The cooling core assembly of claim 13, further comprising:
2	an insulating shell substantially encompassing an exterior surface of the
3	cooling core body.

19. The cooling core assembly of claim 13, further comprising:

2	an insulating insert substantially encompassing an interior surface of the
3	cooling core body.
1	20. The cooling core assembly of claim 13, wherein the super-coolable
2	composition is made by a process comprising:
3	forming a first mixture including water and ethanol, wherein the first
4	mixture has a first pH level;
5	adjusting the pH level of the first mixture to have a second pH level
6	different than the first pH level; and
7	combining a water-soluble binding agent with the first mixture to form a
8	second mixture.

1	21. A process for super-cooling a super-coolable composition of an article, the
2	process comprising:
3	attaching a cooling member of an article to a cooling unit of a cooling
4	apparatus capable of super-cooling a cooling fluid, where in the
5	cooling member is encapsulated within a super-coolable composition
6	in a cooling core body of the article;
7	facilitating super-cooling of a cooling fluid within a tank of the cooling
8	unit; and
9	circulating the cooling fluid through the cooling member after the cooling
10	fluid achieves a prescribed super-cooled state.
1	22. The process of claim 21 wherein facilitating super-cooling of a cooling fluid
2	includes cooling the cooling fluid to a temperature of between about -20
3	degrees centigrade and -30 degrees centigrade.
1	23. The process of claim 21 wherein facilitating super-cooling of a cooling fluid
2	includes:
3	circulating the cooling fluid through a circulator immersed in the cooling
4	fluid; and
5	passing the cooling fluid through a heat exchanging coil.
1	24. The process of claim 21 wherein attaching the cooling member of the article to
2	the cooling apparatus includes attaching the cooling member to a pump of a
3	cooling unit.
1	25. The process of claim 24 wherein circulating the cooling fluid through the
2	cooling member after the cooling fluid achieves a prescribed super-cooled
3	state includes pumping the cooling fluid, via the pump, from the tank through
1	the cooling member and back to the tank

- 26. The process of claim 24, further comprising:
- adjusting the velocity at which the cooling fluid is circulated through the
- 3 cooling member to maintain a desired cooling fluid flow condition.